

## TABLE OF CONTENTS

Section	Page
<b>SUMMARY .....</b>	<b>S-1</b>
<b>LIST OF FIGURES.....</b>	<b>iv</b>
<b>LIST OF ACRONYMS AND ABBREVIATIONS .....</b>	<b>v</b>
<b>1.0 INTRODUCTION .....</b>	<b>1-1</b>
1.1 BACKGROUND.....	1-1
1.2 DESCRIPTION OF THE EXISTING NABIR PROGRAM.....	1-3
1.2.1 Existing Science-Based Program Elements.....	1-4
1.2.2 Facilitating Coordination/Communication of Research Opportunities and Results .....	1-6
1.3 PURPOSE AND NEED .....	1-7
<b>2.0 PROPOSED ACTION AND ALTERNATIVES .....</b>	<b>2-1</b>
2.1 PROPOSED ACTION .....	2-1
2.2 ALTERNATIVES.....	2-2
2.2.1 Alternatives Identification Process .....	2-2
2.2.2 Oak Ridge National Laboratory/Y-12 Site .....	2-4
2.2.3 Pacific Northwest National Laboratory/Hanford 100-H Area .....	2-4
2.2.4 Preferred Alternative .....	2-5
2.2.5 No Action.....	2-5
<b>3.0 DESCRIPTION OF AFFECTED ENVIRONMENT OF THE PROPOSED FRC ALTERNATIVES.....</b>	<b>3-1</b>
3.1 OAK RIDGE NATIONAL LABORATORY/Y-12 SITE.....	3-1
3.1.1 Earth Resources .....	3-2
3.1.2 Climate and Air Quality .....	3-8
3.1.3 Water Resources .....	3-9
3.1.4 Ecological Resources.....	3-13
3.1.5 Archaeological, Cultural and Historic Resources.....	3-15
3.1.6 Land Use, Recreation, and Aesthetic Resources .....	3-16
3.1.7 Socioeconomic Conditions.....	3-16
3.1.8 Human Health.....	3-17
3.1.9 Waste Control .....	3-17
3.1.10 Transportation.....	3-18
3.1.11 Utilities and Services .....	3-19
3.1.12 Environmental Justice .....	3-20
3.2 PACIFIC NORTHWEST NATIONAL LABORATORY/HANFORD SITE 100-H AREA .....	3-21
3.2.1 Earth Resources .....	3-26
3.2.2 Climate and Air Quality .....	3-28
3.2.3 Water Resources .....	3-29
3.2.4 Ecological Resources.....	3-33
3.2.5 Archaeological, Cultural and Historic Resources.....	3-34

3.2.6	Land Use, Recreation, and Aesthetic Resources .....	3-34
3.2.7	Socioeconomic Conditions.....	3-35
3.2.8	Human Health.....	3-36
3.2.9	Waste Control .....	3-36
3.2.10	Transportation.....	3-37
3.2.11	Utilities and Services.....	3-37
3.2.12	Environmental Justice .....	3-37
3.3	NO ACTION .....	3-38
<b>4.0</b>	<b>ENVIRONMENTAL CONSEQUENCES .....</b>	<b>4-1</b>
4.1	OAK RIDGE NATIONAL LABORATORY/Y-12 SITE .....	4-1
4.1.1	Earth Resources .....	4-1
4.1.2	Climate and Air Quality .....	4-2
4.1.3	Water Resources .....	4-2
4.1.4	Ecological Resources.....	4-11
4.1.5	Archaeological, Cultural and Historic Resources.....	4-13
4.1.6	Land Use, Recreation, and Aesthetic Resources .....	4-13
4.1.7	Socioeconomic Conditions.....	4-14
4.1.8	Human Health.....	4-14
4.1.9	Waste Control .....	4-19
4.1.10	Transportation.....	4-19
4.1.11	Utilities and Services.....	4-20
4.1.12	Environmental Justice .....	4-21
4.2	PACIFIC NORTHWEST NATIONAL LABORATORY/HANFORD 100-H AREA .....	4-22
4.2.1	Earth Resources .....	4-22
4.2.2	Climate and Air Quality .....	4-22
4.2.3	Water Resources .....	4-23
4.2.4	Ecological Resources.....	4-29
4.2.5	Archaeological, Cultural and Historic Resources.....	4-30
4.2.6	Land Use, Recreation, and Aesthetic Resources .....	4-31
4.2.7	Socioeconomic Conditions.....	4-31
4.2.8	Human Health.....	4-31
4.2.9	Waste Control .....	4-35
4.2.10	Transportation.....	4-36
4.2.11	Utilities and Services.....	4-36
4.2.12	Environmental Justice .....	4-37
4.3	NO ACTION .....	4-37
<b>5.0</b>	<b>CUMULATIVE EFFECTS OF THE ALTERNATIVES.....</b>	<b>5-1</b>
5.1	CUMULATIVE EFFECTS OF SITING AND OPERATING AN FRC ON THE ORNL/Y-12 SITE .....	5-1
5.1.1	Earth Resources .....	5-2
5.1.2	Climate and Air Quality .....	5-2
5.1.3	Water Resources .....	5-3
5.1.4	Ecological Resources.....	5-3
5.1.5	Archaeological, Cultural and Historic Resources.....	5-3
5.1.6	Land Use, Recreation, and Aesthetic Resources .....	5-3
5.1.7	Socioeconomic Conditions.....	5-4

5.1.8	Human Health .....	5-4
5.1.9	Waste Control .....	5-4
5.1.10	Transportation.....	5-4
5.1.11	Utilities and Services.....	5-5
5.1.12	Environmental Justice .....	5-5
5.2	CUMULATIVE EFFECTS OF SITING AND OPERATING AN FRC ON THE PNNL/HANFORD 100-H AREA .....	5-5
5.2.1	Earth Resources .....	5-6
5.2.2	Climate and Air Quality .....	5-6
5.2.3	Water Resources .....	5-6
5.2.4	Ecological Resources.....	5-7
5.2.5	Archaeological, Cultural and Historic Resources.....	5-7
5.2.6	Land Use, Recreation, and Aesthetic Resources .....	5-7
5.2.7	Socioeconomic Conditions.....	5-7
5.2.8	Human Health.....	5-8
5.2.9	Waste Control .....	5-8
5.2.10	Transportation.....	5-8
5.2.11	Utilities and Services.....	5-8
5.2.12	Environmental Justice .....	5-8
<b>6.0</b>	<b>RELATED NEPA AND OTHER DOCUMENTS.....</b>	<b>6-1</b>
<b>7.0</b>	<b>UNAVOIDABLE ADVERSE ENVIRONMENTAL IMPACTS .....</b>	<b>7-1</b>
<b>8.0</b>	<b>SHORT-TERM USE AND LONG-TERM PRODUCTIVITY.....</b>	<b>8-1</b>
<b>9.0</b>	<b>APPLICABLE ENVIRONMENTAL REGULATIONS, EXECUTIVE ORDERS, PERMITS AND DOE ORDERS.....</b>	<b>9-1</b>
<b>10.0</b>	<b>LIST OF AGENCIES AND PERSONS CONTACTED.....</b>	<b>10-1</b>
<b>11.0</b>	<b>REFERENCES.....</b>	<b>11-1</b>
<b>12.0</b>	<b>GLOSSARY.....</b>	<b>12-1</b>
<b>13.0</b>	<b>LIST OF PREPARERS.....</b>	<b>13-1</b>
<b>APPENDIX A</b>	<b>Detailed Description of the Proposed Action</b>	
<b>APPENDIX B</b>	<b>Comment and Response Documentation</b>	
<b>APPENDIX C</b>	<b>NABIR Program Management Plan</b>	
<b>APPENDIX D</b>	<b>Federal Register Notice and Statement of Findings for Site Investigation Activities at the Oak Ridge Y-12 Plan Area of Responsibility</b>	
<b>APPENDIX E</b>	<b>Coordination Letters</b>	
<b>APPENDIX F</b>	<b>Existing NEPA and Related Documentation</b>	
<b>APPENDIX G</b>	<b>Gray and Indiana Bats: Assessment and Evaluation of Potential Roosting and Foraging Habitats, Anderson and Roane Counties, Tennessee</b>	